



Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)

ATTY. DOCKET NO: 5119-12401

SERIAL NO: 10/824,772

APPLICANT: Koros et al.

CONFIRMATION NO.: 6708

FILING DATE: April 15, 2004

ART UNIT: 1724

FOREIGN PATENT DOCUMENTS

EXAM. INITIAL	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	A33	0 446 947	5/24/1995	EP			
	A34	0 820 805	1/28/1998	EP			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Exam. Initial	Ref. Des.	Article
	A01	Bai et al., "Metal-ion mediated separation of propylene from propane using PPO membranes," Journal of Membrane Science, 147(1998) pp. 131-139.
	A02	Bell et al., "Synthesis and Properties of Polyimidazopyrrolones," Journal of Polymer Science: Part A1 5(1967) pp. 3043-3060.
	A03	Bondi, "Catalog of Molecular Properties" in Physical Properties of Molecular Crystals, Liquid and Glasses, 1968, pp. 450-483 (Wiley, New York, NY).
	A04	Coleman, "Isomers of Fluorine Containing Polyimides for Gas Separation Membranes," Ph. D dissertation, University of Texas at Austin TX 1992. 252 pages
	A05	Freeman, "Basis of Permeability/Selectivity Tradeoff Relations in Polymeric Gas Separation Membranes", Macromolecules, 32(1999) pp. 375-380.
	A06	Ilinich et al., "Separation of ethylene and ethane over polyphenyleneoxides membranes: transient increase of selectivity", Journal of Membrane Sciences, 82(1993) pp. 149-155.
	A07	Ito et al., "Permeation of Propane and Propylene through Cellulosic Polymer Membranes," Journal of Applied Polymer Science, 38(1989) pp. 483-490 (Wiley, New York, NY).

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	A08	Kim et al., " <i>Relationship Between Gas Separation Properties and Chemical Structures in a Series of Aromatic Polyimides</i> ", Journal of Membrane Science, 37(1988) pp. 45-62 (Elsevier, Amsterdam).	
	A09	Kim et al., " <i>Advanced Gas Separation Membrane Materials: Rigid Aromatic Polyimides</i> ," Separation Science and Technology, 23:12-13(1988) pp. 1611-1626 (Dekker, Inc.).	
	A10	Kim, " <i>Gas Sorption and Permeation in a Series of Aromatic Polyimides</i> ," Ph.D. dissertation, University of Texas at Austin, TX, 1988, 159 pages.	
	A11	Koros et al., " <i>Gas Separation Membrane Material Selection Criteria: Weakly and Strongly Interacting Feed Component Situations</i> ," Polymer Journal, 23:5 (1991) pp. 481-490.	
	A12	Koros et al., " <i>CO₂ Sorption in Poly(ethylene Terephthalate) above and below the Glass Transition</i> ," Journal of Polymer Science: Polymer Physics, 16(1978) pp. 1947-1963 (Wiley, New York, NY).	
	A13	Koros et al., " <i>Sorption and Transport of Various Gases in Polycarbonate</i> ," Journal of Membrane Science, 2(1977) pp. 165-190 (Elsevier, Amsterdam).	
	A14	Lee et al., " <i>Separation of propylene and propane by polyimide hollow-fiber membrane module</i> ," Journal of Membrane Science, 73(1992) pp. 37-45 (Elsevier, Amsterdam).	
	A15	Olson et al., " <i>Polarographic Study of Coordination Compounds with Delocalized Ground States. Substituent Effects in Bis- and Trisdithiodiketone Complexes of Transition Metals</i> ," Journal of the American Chemical Society, 88:21(1966) pp. 4876-4882 (American Chemical Society, OH).	
	A16	Park et al., " <i>Facilitated transport of olefin through solid PAAm and PAAm-graft composite membranes with silver ions</i> ," Journal of Membrane Science, 183(2001) pp. 163-170 (Elsevier, Amsterdam).	
	A17	Petropoulos, " <i>Quantitative Analysis of Gaseous Diffusion in Glassy Polymers</i> ," Journal of Polymer Science: Part A-2, 8(1970) pp. 1797-1801 (Wiley, New York, NY).	

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	A18	Pinnau et al., "Solid polymer electrolyte composite membranes for olefin/paraffin separation," Journal of Membrane Science, 184(2001) pp. 39-48 (Elsevier, Amsterdam).
	A19	Robeson, "Correlation of separation factor versus permeability for polymeric membranes," Journal of Membrane Science, 62(1991) pp. 165-185 (Elsevier, Amsterdam).
	A20	Scott et al., "Polyimidazopyrrolone Reverse Osmosis Membranes," Polymer Letters, 8(1970) pp. 563-571.
	A21	Shimazu et al., "Relationships between the Chemical Structures and the Solubility, Diffusivity, and Permselectivity of Propylene and Propane in 6FDA-Based Polyimides," Journal of Polymer Science: Part B: Polymer Physics, 38(2000), pp. 2525-2536 (Wiley, New York, NY).
	A22	Shimazu et al., "Relationships Between Chemical Structures and Solubility, Diffusivity, and Permselectivity of 1,3-Butadiene and n-Butane in 6FDA-Based Polyimides," Journal of Polymer Science: Part B: Polymer Physics, 37(1999) pp. 2941-2949 (Wiley, New York, NY).
	A23	Staudt-Bickel et al., "Olefin/paraffin separation with 6FDA-based polyimide membranes," Journal of Membrane Science, 170(2000) pp. 205-214 (Elsevier, Amsterdam).
	A24	Steel, "Carbon Membranes for Challenging Gas Separations," Ph.D. dissertation, The University of Texas at Austin TX, 2000, 199 pages.
	A25	Tanaka et al., "Permeation and separation properties of polyimide membranes to olefins and paraffins." Journal of Membrane Science, 121(1996) pp. 197-207 (Elsevier, Amsterdam).
	A26	Van Krevelen et al., "Volumetric Properties" in Properties of Polymers: Their Estimation and Correlation with Chemical Structure, 2 nd Edition, Elsevier, Amsterdam, 1976, pp. 51-79.
	A27	Vieth et al., "Dual Sorption Theory," Journal of Membrane Science, 1(1976), pp. 177-220 (Elsevier, Amsterdam).

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	A28	Walker, " <i>Synthesis and Characterization of Polypyrrolones for Gas Separation Membranes</i> ," Ph.D. dissertation, The University of Texas at Austin, Texas, 1993, 188 pages.	
	A29	Walker et al., " <i>Transport characterization of a polypyrrolone for gas separations</i> ," Journal of Membrane Science, 55(1991) pp. 99-117 (Elsevier, Amsterdam).	
	A30	Wang et al., " <i>Toward Separation and Purification of Olefins Using Dithiolene Complexes: An Electrochemical Approach</i> ," Science, 291(2001) pp. 106-109.	
	A31	Zimmerman, " <i>Advanced Gas Separation Membrane Materials: Hyper Rigid Polymers and Molecular Sieve-Polymer Mixed Matrices</i> ," Ph.D. dissertation, The University of Texas at Austin, TX, 1998, 322 pages.	
	A32	Burns, " <i>Investigation of Poly(pyrrolone-imide) Materials for the Olefin/Paraffin Separation</i> ," Ph.D. dissertation, The University of Texas at Austin, TX, 2002, 213 pages.	
	A35	European Patent Office, " <i>International Search Report</i> ," International Application No. PCT/US02/03962 mailed August 27, 2003, 7 pages.	
	A36	European Patent Office, " <i>International Preliminary Examination Report</i> " for International Application No. PCT/US02/03962 mailed September 19, 2003, 8 pages.	

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